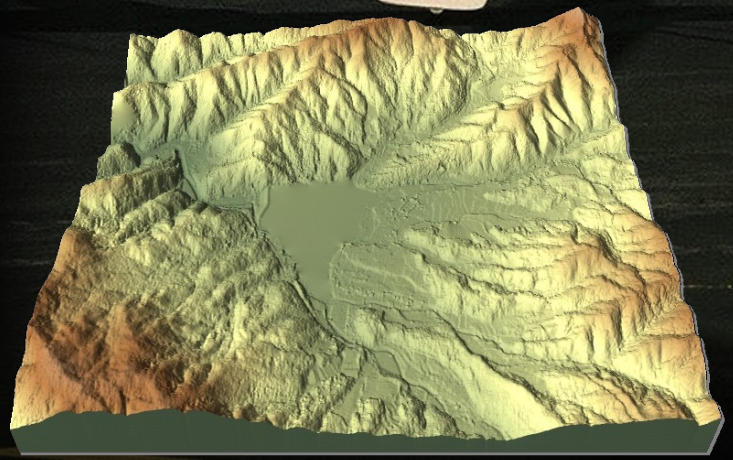
IFSAR MAPPING ACTD

Tactical IFSAR



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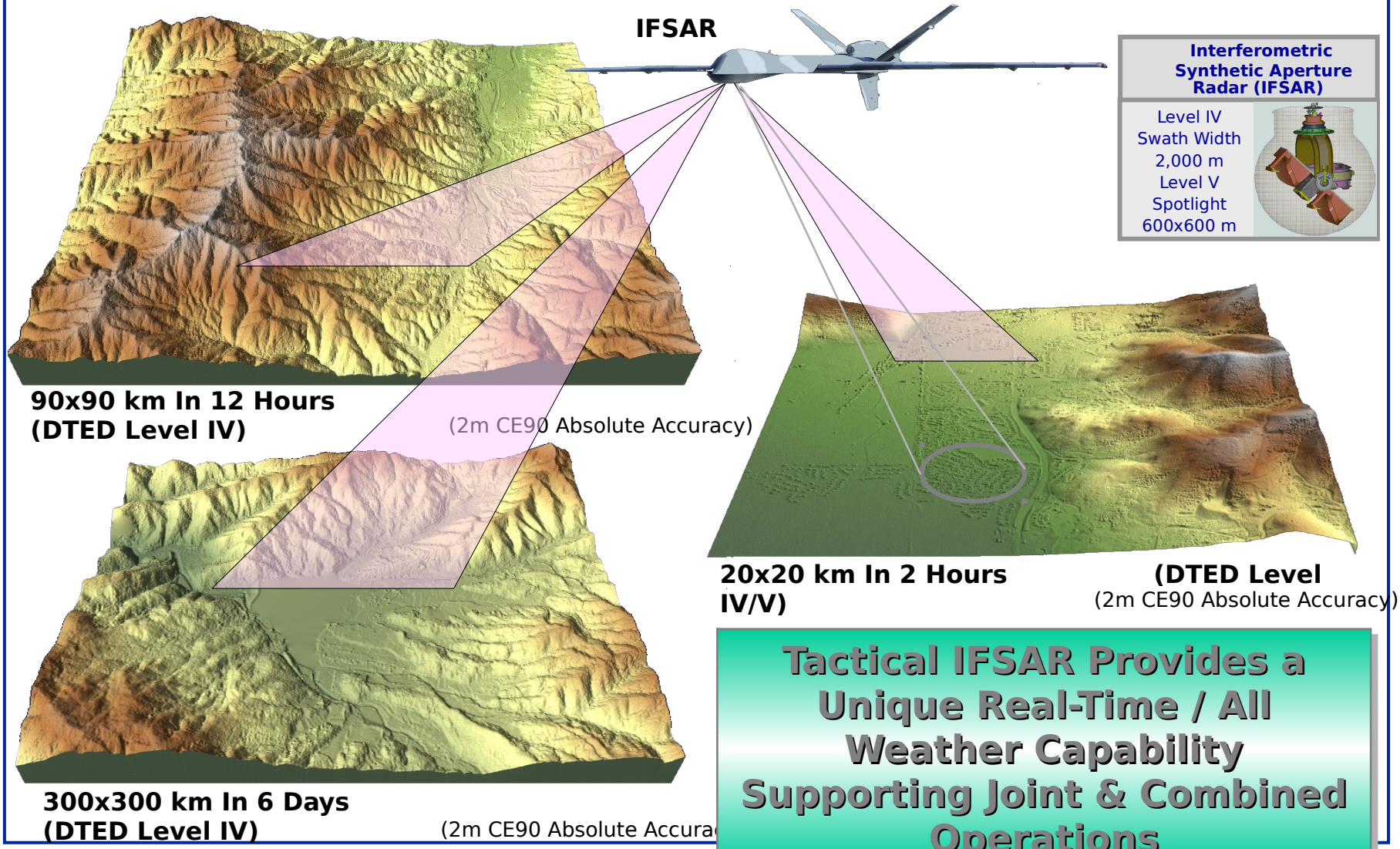
IFSAR MAPPING ACTD
Tactical IFSAR

- U.S. Forces **Do Not** Have Capability to Rapidly Collect High Resolution Digital Terrain Elevation Data (**DTED**) Over Hostile Environments
  - No Other Sources (U2, Global Hawk, Satellite) Produce the DTED Required
- Operation Enduring Freedom Highlights the Need and Lethal Potential of High Resolution DTED
  - i.e., Cave Detection, Kill Zones, Lines of Sight, Landing Zones, Fields of Fire, Targeting, Smart Weapons, Mobility Corridors, Search, Recon, Special Ops, Etc.
- Tactical IFSAR Would Provide High Resolution Reflective Surface and Bare Earth (DTED Level IV) Data for Entire Afghanistan Theater in 4 Weeks

Basic Concept



Tactical IFSAR Provides a Unique Real-Time / All Weather Capability Supporting Joint & Combined Operations

Mission & Objectives

- Integrate Interferometric Synthetic Aperture Radar Sensor Capabilities Onto a High Altitude Unmanned Aerial Vehicle
- Implement Ground-Based Sensor Control With Real-Time Data Downlink and Processing
- Operate at High Altitudes (Over 50,000')
- Reduce Time Required to Collect, Process and Disseminate Data From **YEARS** to **DAYS**

Entire Countries Such As Afghanistan Could Be Collected In ~ Four Weeks